

29 Mr '94

ADJUSTABLE HOLDERS

. . . FOR . . .

Incandescent Lamps

O. C. WHITE & CO.,

WORCESTER, MASS.

U. S. A.

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3317

Pamphlet #3

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From

REFERENCE.

CLAIMS

Laid before the Judges of the World's Columbian Exposition, on which 3 highest awards were bestowed:

1. Their great range of movement.
2. Their smoothness and ease of action.
3. Their adjustability and ease of placement without attention to fastenings.
4. Their retention of lamp and shade at any angle, above, below, or at any position in relation to the object lighted.
5. Their protection of conductors from contact with moving parts of machinery, etc.
6. Their adaptation as overhead pendants, wall brackets, and for standard supports.

THE Incandescent Electric Lamp is beyond all doubt much better for most industrial purposes than any other source of light. It is better than oil, kerosene or gas, because it is so much safer and so much cleaner, giving out neither smoke nor carbonic acid, nor hurtful heat.

While the arc light is a superb means of *general* illumination, it does not so well light up details, and on account of its intense heat and dazzling brilliancy, it cannot be closely approached by the workmen.

On the whole the advantage is greatly in favor of the incandescent system, which is now put into new buildings quite as a matter of course. And still there has always existed a great drawback to its general use.

The usual, and perhaps only, means of sustaining the incandescent lamp near the work, where it is most wanted, has been to hang it by a length of the conducting wires. This way has many objections. The service wires have to take the weight of the lamp, and to stand the wear of every attempt to shift its position, and so the insulation is liable to be impaired.

Again, when a shade is attached to the lamp, it can only take the one position and angle to which it naturally gravitates.

And it is also plain that a fragile lamp, swinging at the end of a loose cord, is very likely to be in the way and sooner or later to be broken.

The Holders made by O. C. White & Co. do away with this last objection, and really hold a lamp **ADJUSTABLY**, that is to say, they enable you to move the lamp to the *exact spot where it is wanted*, and there it stays; they are as easily shifted and as steady as a gas bracket, but their range of movement is far more extensive than any gas fixture.

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DESCRIPTION.

THE illustrations give a general idea of the construction of the Holders. The foundation is a sectional ball and socket joint (A), on a base suited to the required position, either the ceiling, wall, floor, column or corner being available. This joint has received many awards and medals for its remarkable originality and great value, especially from the

Franklin Institute of Philadelphia.

Mass. Charitable Mechanics' Association of Boston.

From joint (A) runs a tube of firm metal to the swivel joint (B), which carries another metal tube, usually shorter than the first. Joint B allows extension and rotation in any direction of both arms. The conducting wires pass through the short arm, which at its far end carries the lamp (with its shield and shade if wanted) by a third joint (C), which allows the lamp to be inclined at any angle.

This combination of tubes and joints is a close copy of the human arm, with a ball and socket joint at the shoulder, a swivel joint at the elbow, and a wrist joint, and

LIKE THE HUMAN HAND

this holder can bring its burden into any position within its sweep.

Each joint of the mechanism has an elastic pressure (easily adjusted, if this is ever needed), which is enough to hold a heavy lamp and shade quite firmly, and still will yield to a moderate force when it is desired to change its position.

In one respect the metal holder has an advantage in that either the upper or the lower arm can be made longer or shorter at will, by simply sliding through the swivel joint.

All the working parts are of metal, made interchangeable; insulating bushings protect the conducting cords, and ample provision is made for any possible wear by prolonged use.

For the Holders, and for the component joints, the highest awards were given at the Columbian Exposition at Chicago.

The variety of form as well as the range of motion of these Holders is almost unlimited, and is only hinted at in the illustrations. The trial of a single one will convince the most skeptical of their usefulness as well as of the simplicity and perfection of their construction.

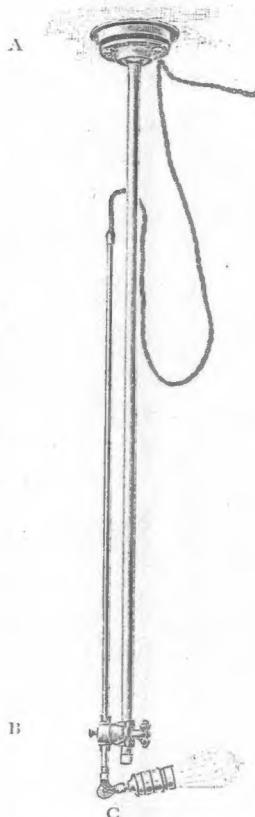
Some letters are appended from manufacturers in Worcester, who have had these Holders in constant use for more than a year, during which time there has not been a single instance of failure of any sort or degree.

The Holders are now offered to the public with complete confidence that they will satisfy the most exacting requirements.

ADJUSTABLE HOLDERS FOR INCANDESCENT LAMPS.

O. C. WHITE & CO.,

WORCESTER, MASS., U. S. A.



This cut represents No. 1, arms 4 ft. and 3 ft. When the lower arm is drawn out, the Lamp can be placed anywhere in a horizontal circle of over 9 ft. in diam., and anywhere above and anywhere within about 3 ft. below.

Patented June 20, 1882; Aug. 30, 1887; Sept. 26, 1893 (two patents).

PRICE LIST, MARCH 1, 1894.

Pendant Holders as above. The proper length of upper arm is found by subtracting $6\frac{1}{2}$ ft. from the distance from floor to point of attachment.

	Upper Arm.	Lower Arm.		Upper Arm.	Lower Arm.		
No. 1.	4 ft.	3 ft.	\$2.00	No. 1 X.	7 ft.	$3\frac{1}{2}$ ft.	\$2.90
Reg. Wgt.	5 ft.	3 ft.	2.20	Extra heavy	8 ft.	$3\frac{1}{2}$ ft.	3.10
	6 ft.	$3\frac{1}{2}$ ft.	2.40	Joints, etc.,	9 ft.	$3\frac{1}{2}$ ft.	3.30
	7 ft.	$3\frac{1}{2}$ ft.	2.60		10 ft.	$3\frac{1}{2}$ ft.	3.50
No. 2.							
Lighter.	3 ft.	$2\frac{1}{2}$ ft.	1.80		4 ft.	$2\frac{1}{2}$ ft.	1.90

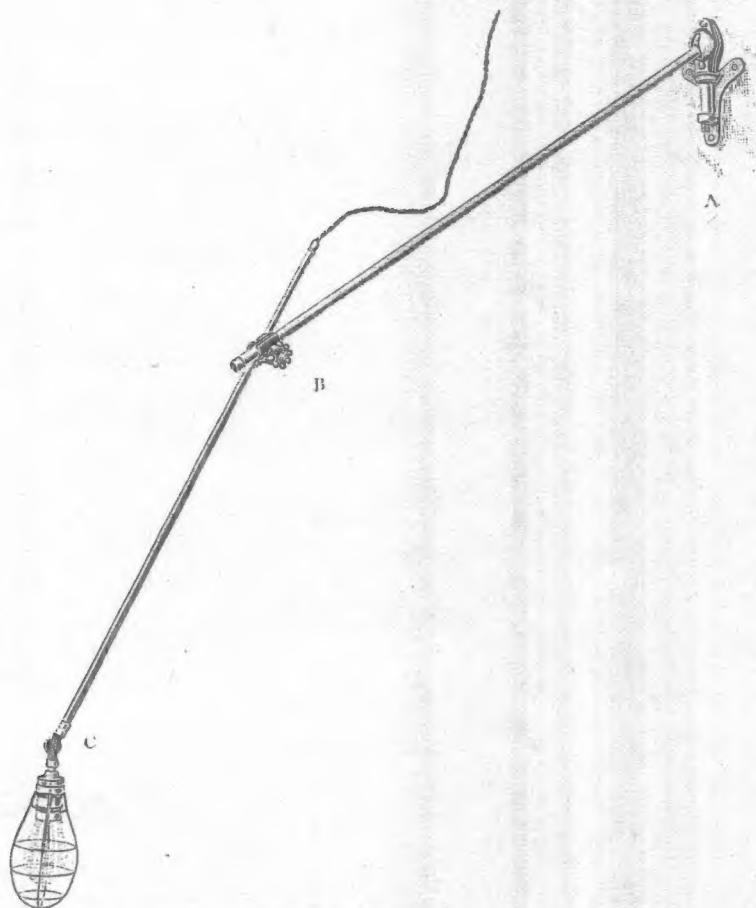
All of above in black iron. Extra for brass or plating or other ornamentation. 20 per cent. discount for 6 or more. Special discounts on large orders or mill outfits, and to the trade. Terms cash.

Prices do not include cords, sockets, or lamp.

ADJUSTABLE HOLDERS FOR INCANDESCENT LAMPS.

O. C. WHITE & CO.,

WORCESTER, MASS., U. S. A.



Patented June 20, 1882; Aug. 30, 1887; Sept. 26, 1893 (two patents).

PRICE LIST, MARCH 1, 1894.

Wall Bracket with Cone Joint as above, for attachment to wall, round column or square corner. (Specify exactly the desired form of base.)

	Upper Arm.	Lower Arm.	Upper Arm.	Lower Arm.	
No. 1 C.	4 ft.	3 ft.	\$2.40	5 ft.	3 ft. \$2.60
No. 2 C. Lighter.	3 ft.	2½ ft.	2.20	4 ft.	2½ ft. 2.30

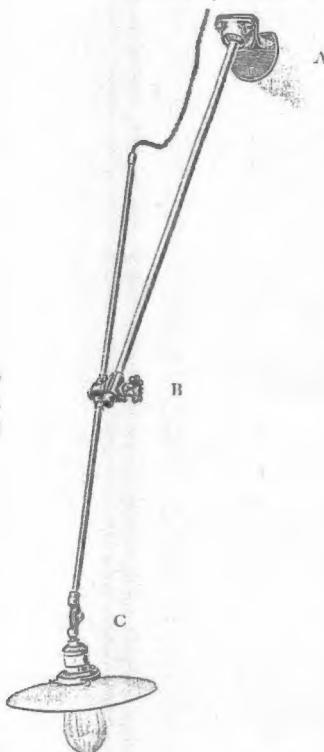
All of above in black iron. Extra for brass or plating or other ornamentation. 20 per cent. discount for 6 or more. Special discounts on large orders or mill outfits, and to the trade. Terms cash.

~~All~~ Prices do not include cord, sockets or lamps.

ADJUSTABLE HOLDERS FOR INCANDESCENT LAMPS.

O. C. WHITE & CO.,

WORCESTER, MASS., U. S. A.



In black iron, this form can be furnished in same sizes and prices as No. 1.

Patented June 20, 1883; Aug. 30, 1887; Sept. 26, 1893 (two patents).

PRICE LIST, MARCH 1, 1894.

The above cut represents a light form which has been found very useful over desks, benches, etc., and is susceptible of an immense range of variation. As shown above, brass telescoping arm and mountings, supporting arm and joints bronzed.

Supporting Arm.	Telescoping Arm.	We furnish also a very substantial and heavy upright column of black iron,
No. 2 B. $2\frac{1}{2}$ ft.	2 ft. \$2.80	
3 ft.	$2\frac{1}{2}$ ft. 3.00	$6\frac{1}{2}$ ft. high, with upper arm 6 ft.,
4 ft.	3 ft. 3.10	lower arm $3\frac{1}{2}$ ft., at \$6.00

These lengths can be varied; prices of next greater length will apply.

20 per cent. discount for 6 or more.

Special discounts on large orders and for mill outfits, and to the trade. Terms cash.

~~All~~ Prices do not include cord, sockets, or lamps.

We are prepared to furnish at very short notice adjustable Holders of *any required length and range*. Prices on application.

TESTIMONIALS.

ENTIRE SATISFACTION.

WORCESTER, MASS., December 23, 1892.

MR. OTIS C. WHITE.

Dear Sir:—Regarding your Adjustable Electric Lamp Supporters, would say that we have over 50 of them in use in our factory, and they have given entire satisfaction, and filled all the requirements claimed for them. We cheerfully recommend them to any one needing anything of this kind.

Yours truly,

SPEIRS MFG. CO.

MAJESTIC BICYCLE WORKS.

Per C. R. MOULES.

UNLIMITED AS TO POSITION.

WORCESTER, MASS., January 25, 1893.

OTIS C. WHITE.

Dear Sir:—We are now using a number of your Patent Electric Lamp Supporters, and shall continue to add more as we require them.

We consider them far superior to the Wooden Supporters for a number of reasons. Being made wholly of metal they will last longer and are less liable to become broken; they are unlimited as to position within their range; the electric wires passing through the pipe prevents them from being worn or broken while adjusting the lamp; they are neat in appearance and well made.

We shall be pleased to show them in use to anyone you may wish to refer to us.

Very respectfully,

F. E. REED & CO.

By JOHN R. BACK, Supt.

NO CRIPPLES AMONG THEM.

WORCESTER, MASS., February 28, 1894.

DEAR Sir: In reply as to the condition of the Electric Light Supporters we purchased of you last year, we are pleased to say there are no cripples among them. They have given perfect service and have needed no repair. They improve by use, and show unlimited efficiency in their adaptation to all uses and changes of position for the incandescent light. They are a complete success.

Without your Adjustable Holders in working with and among machines where good light without shadow is required, the incandescent light would be insufficient in many cases. The workmen like them, and it is for our economy and interest to use them. We shall order more.

F. E. REED & CO.

SERVES A DOUBLE PURPOSE.

WORCESTER, MASS., March 3, 1894.

MESSRS. O. C. WHITE & CO.

Gentlemen:—With entire satisfaction we are using in our factory your Electric Light Supporters in variety of sizes and kinds suited to the places they are put—as overhead, ceiling or upright attachments. All without exception serve well. We have them over benches for vise work, for planers, lathes, milling and grinding machines. In some instances one light serves a double purpose, as from a machine to a vise, or to the grinder, etc. Two of the supporters are in use with our big boring machine and give us a convenient, comfortable light, just as we want it—something we did not have before. We stand by the opinion that it should be extensively used in factories and mills.

Yours truly,

HILBERT MACHINE CO.,

180 Union St., Worcester, Mass.

CANNOT SUGGEST ANY IMPROVEMENTS.

WM. H. WARREN MACHINE TOOL WORKS,

WORCESTER, MASS., February 27, 1894.

MR. O. C. WHITE.

Dear Sir:—In answer to your inquiry in regard to the Electric Light Supporters you put in my machine shop in 1892, I am happy to say that they exceed my anticipations. And I regret that I hesitated in taking out the new ones of another maker's as long as I did, for I consider they have already paid twice their cost in time saved over these I had in use. They work to great advantage on radial drills, when the arm is so constantly changing to different positions. My operatives that have floor, bench, lathe and planer work say they cannot suggest any desired improvements. As to repairs, I have not paid out one cent on them. I should be pleased to have any one that uses electric lights call and see that my statements are correct.

Respectfully,

W. H. WARREN, Agent.

RESULTS UNKNOWN BEFORE.

WORCESTER, MASS., March 2, 1894.

The Special Incandescent Light Supporters with double light attachments which you furnished us several months ago are entirely satisfactory, in fact securing results unknown to us before. Easily with your light adjustment the difficulty experienced by the hand shading the work is obviated, which from that simple fact is of great value. While, at the same time, a shade can be used to protect the eyes, the light can be brought close to the work, causing no shadow whatever.

CROMPTON LOOM WORKS.

WORLD'S COLUMBIAN EXPOSITION.

Dear Sir:—I take pleasure in stating that I used your Adjustable fixtures in my office at the Fair and was much pleased with them. If I had seen them in time I should have been pleased to use them in my drafting room, etc., as they are the only good thing of the kind for such work. They were spoken of highly by the electrical judges and by those who saw them in use.

Very truly yours,

R. H. PIERCE, Electrical Engineer.

LINOTYPE ROOM.—GREAT SUCCESS.

WORCESTER, March 1st, 1894.

THE O. C. WHITE Co.

Your Electric Light Supporters for our linotype room are a great success. We shall want them for the office.

SPY PUBLISHING CO.



"In the opinion of the judges the claims are reasonable and just, and are realized in every particular. Its originality, the perfect simplicity of its parts and construction, the great ease and rapidity of adjustment in any desired position. A most valuable acquisition in mechanical movements, and one which, in the opinion of the judges, is in every particular worthy of the

'Highest Award' in their power to bestow."

THE
GOLD MEDAL.



JUDGES:

ANDREW J. GUSTIN.

DAVID W. POND.

SAMUEL F. SUMMERS.

World's Fair at Philadelphia, 1876, for "Uniformity of Motion, Simplicity of Construction, and Complete Adaptability to the purposes intended." The more recent invention pertaining to Incandescent Lamp Supporters has greater superiority in Simplicity, Economy and Varied Application.





F. S. BLANCHARD & CO., PRINTERS, 154 FRONT ST., WORCESTER.